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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	717/124.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:58
L2	0	717/128.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:58
L3	1	717/162.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:58
L4	0	717/163.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:58
L5	1	717/140.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:59
L6	0	717/141.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:59
L7	1	717/142.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:59
L8	0	717/144.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:59
L9	0	717/143.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:59
L10	1	717/145.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:59
L11	0	717/146.ccls. and "software build" same modif\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 12:00

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L12	4	I1 I2 I3 I4 I5 I6 I7 I8 I9 I10 I11	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 12:00
S1	50	("20050044533" "5742754" "6292830" "5960196" "6898784" "5335342" "6416838" "5951697" "6243862" "5600789" "5655121" "5781720" "5878050" "5896494" "5991897" "6002868" "6028999" "6243835" "6874099" "7080356" "20020178281" "20030051186" "20030167422" "20030192009" "20030196191" "20040073662" "20040128652" "20040133880" "20050144593" "20060010426" "20060075302" "20060075303" "6028998" "6247126" "5363383" "5608894" "5717928" "6006022" "20040064268" "20040143830" "20060080638" "7047518" "20020091990" "20060059458" "6430741" "5572664" "5758062" "5877942" "5913023" "5938779"). pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/13 11:57
S2	1	"5450416".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/10 18:49
S3	32	S1 and build	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/10 19:04
S4	32	S1 and build and test	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/10 19:06
S5	19	S1 and build and test and compar\$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/10 19:06
S6	50	test\$3 with ((software program) adj1 build)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/11 12:53
S7	38	S6 and compar\$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/11 12:54


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1 [Building testable software](#)

Lin Zucconi, Karl Reed

September 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 5

Publisher: ACM Press

Full text available: [pdf\(591.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper examines a connection between well known specification, design, implementation methods that have not to have been previously well-formulated. We refer to the fact that the use of finite state machines (specification, design, implementation and testing) is well known and documented. However, despite being more than twenty years old, there appears to be no detailed proposal for a consistent FSM-based ...

2 [How Microsoft builds software](#)

Michael A. Cusumano, Richard W. Selby

June 1997 **Communications of the ACM**, Volume 40 Issue 6

Publisher: ACM Press

Full text available: [pdf\(712.71 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

3 [Computer security: Software security vulnerability testing in hostile environments](#)

Herbert H. Thompson, James A. Whittaker, Florence E. Mottay

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf\(547.79 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditional Black box software testing can be effective at exposing some classes of software failures, but tends to manifest readily using these techniques. The problem is that many security failures occur in the field, but are often neglected during testing because of the difficulty to simulate these conditions securely if it behaves securely under all operating environments. Hostile enviro ...

Keywords: fault injection, software defect, software failure, software security, software testing

4 [Requirements elicitation for an intelligent software test environment for the physically challenged](#)

Warren Moseley

January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces**

Publisher: ACM Press

Full text available: [pdf\(888.73 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is about the elicitation of the requirements for an intelligent interface for a software to accommodate the physically challenged (PC). This research explores the use of eye-tracking methods to interfaces that are especially enhanced for the PC. In addition these devices provide assistance to

Intelligent User Interface to such an environment. It was never a stated objective o ...

Keywords: Americans with Disabilities Act (ADA) of 1990, design patterns, digital manipulatives automation, knowledge acquisition, knowledge elicitation, object oriented architecture, physical software architecture

5 Specification-based testing of synchronous software

 Ioannis Parissis, Farid Ouabdesselam

October 1996 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th ACM SIGSOFT Software engineering SIGSOFT '96**, Volume 21 Issue 6

Publisher: ACM Press

Full text available:  pdf(912.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)

Synchronous programming makes the implementation of reactive software easier and safer. Aut model-checking have been developed within the synchronous approach to prove the satisfaction these methods often require huge memory or time amounts. As a solution to that problem we p techniques allowing for automatic test data generation. These techniques can be used independe

6 Daily build and feature development in large distributed projects

 Even-André Karlsson, Lars-Göran Andersson, Per Leion

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Publisher: ACM Press

Full text available:  pdf(93.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)

Daily build is a software development paradigm that originated in the PC industry to get control allowing the focus on end user requirements and code. The PC industry used daily build to avoid an environment without a strong development process. Ericsson Radio Systems has chosen to ir end user requirements and code, but from a different starting point with a tradi ...

Keywords: daily build, extreme programming, feature teams, incremental development, integr

7 Software testing: a machine learning experiment

 Thomas J. Cheatham, Jungsoon P. Yoo, Nancy J. Wahl

February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**

Publisher: ACM Press

Full text available:  pdf(655.39 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

8 Regression test selection for Java software

 Mary Jean Harrold, James A. Jones, Tongyu Li, Donglin Liang, Alessandro Orso, Maikel Pennings, S. Gujarathi

October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11

Publisher: ACM Press

Full text available:  pdf(292.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)

Regression testing is applied to modified software to provide confidence that the changed parts parts have not been adversely affected by the modifications. To reduce the cost of regression te suite that was used to test the original version of the software---this process is called regressio selection algorithm selects every test case in the test suite that may rev ...

9 Book Reviews: The Craft of Software Testing: Subsystem Testing Including Object-Based :

 Maxick

John A. Kostecki

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Publisher: ACM Press

Full text available:

Additional Information:

[pdf\(213.51 KB\)](#)[full citation](#)**10 The chaining approach for software test data generation** Roger Ferguson, Bogdan KorelJanuary 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Vol. Publisher: ACM PressFull text available: [pdf\(1.53 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cite](#)

Software testing is very labor intensive and expensive and accounts for a significant portion of s testing process could be automated, the cost of developing software could be significantly reduc is the process of identifying a set of test data that satisfies a selected testing criterion, such as s this article we present a chaining approach for automat ...

Keywords: data dependency, dynamic analysis, heuristics, program execution

11 Two case studies of open source software development: Apache and Mozilla July 2002 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Vol.

Publisher: ACM Press

Full text available: [pdf\(373.10 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cite](#)

According to its proponents, open source style software development has the capacity to compe displace, traditional commercial development methods. In order to begin investigating such clai source projects, the Apache web server and the Mozilla browser. By using email archives of sou we quantify aspects of developer participation, core team size, code ownership, productivit ...

Keywords: Apache, Mozilla, Open source software, code ownership, defect density, repair inter

12 Validation and verification: Deriving models of software fault-proneness Giovanni Denaro, Sandro Morasca, Mauro PezzèJuly 2002 **Proceedings of the 14th international conference on Software engineering**

Publisher: ACM Press

Full text available: [pdf\(164.38 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cite](#)

The effectiveness of the software testing process is a key issue for meeting the increasing dema costs of software development. The estimation of software fault-proneness is important for asse planning and tuning the testing process. Unfortunately, no general techniques are available for distribution of faults to identify the correct level of test for the required qualit ...

Keywords: cross-validation, fault-proneness models, logistic regression, software faultiness, sc

13 A perspective on teaching software testing

Edward L. Jones, Christy L. Chatmon

March 2001 **Journal of Computing Sciences in Colleges**, Volume 16 Issue 3

Publisher: Consortium for Computing Sciences in Colleges , Consortium for Computing Sciences in Colleges

Full text available: [pdf\(74.00 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [inc](#)

This paper addresses the issue of how to approach the teaching of software testing. Relative to software testing receives very little attention in the undergraduate curriculum. It is not practical testing, so relevant test experiences need to be given throughout core courses. This paper pres five essential principles that motivate the types of testing experiences a stud ...

14 Experience reports: testing and fault correction: Assessing test-driven development at IBM

E. Michael Maximilien, Laurie Williams

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: [pdf\(572.29 KB\)](#) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In a software development group of IBM Retail Store Solutions, we built a non-trivial software system's specification using a disciplined, rigorous unit testing and build approach based on the test-driven development practice, we reduced our defect rate by about 50 percent compared to a similar system that was developed using traditional methods. The project completed on time with minimal development productivity impact. Additionally, ...

15 Technical papers: testing II: A framework for component deployment testing

Antonia Bertolino, Andrea Polini

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: [pdf\(1.34 MB\)](#) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Component-based development is the emerging paradigm in software production, though several challenges remain. In particular, the "component trust problem" refers to how adequate guarantees and documentation can be transferred from the component developer to its potential users. The capability to test a component in its application environment can help establish the compliance of a candidate component to the customer's requirements.

16 Session: Extreme embedded a report from the front line

Gary Mueller, Janet Borzuchowski

November 2002 **OOPSLA 2002 Practitioners Reports**

Publisher: ACM Press

Full text available: [pdf\(145.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Many embedded development environments are stuck somewhere in the backwash of software engineering practices, with the artifacts of those methodologies liberally scattered about, are the norm in the industry. Since structured methodologies first emerged, with shorter and shorter market windows and increasing complexity, more and more capabilities at lower and lower cost. Embedded system development must also adapt to these changes.

Keywords: eXtreme programming, embedded

17 Software metrics: roadmap

Norman E. Fenton, Martin Neil

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available: [pdf\(1.25 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Bayesian belief nets, causal models, multi-criteria decision aid, risk assessment, software metrics

18 A safe, efficient regression test selection technique

Gregg Rohermel, Mary Jean Harrold

April 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Vol. 6, No. 1

Publisher: ACM Press

Full text available: [pdf\(730.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Regression testing is an expensive but necessary maintenance activity performed on modified software systems to ensure that the modifications are correct and do not adversely affect other portions of the software. A regression test selection technique is presented that selects tests that are deemed necessary to validate modified software. We present a new technique for generating control flow graphs for a procedure or program and its modified version. ...

Keywords: regression test selection, regression testing, selective retest

19 Improving validation activities in a global software development

Christof Ebert, Casimiro Hernandez Parro, Roland Suttels, Harald Kolarczyk

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available:



pdf(288.74 KB)



Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#), [inc](#)

Global software development challenges traditional techniques of software engineering, such as teamwork and coaching of engineers highly contribute towards successful projects. We will evaluate validation activities in a global setting within Alcatel's Switching and Routing business. We will illustrate collocated inspections, intensive coaching, and feature-oriented development ...

Keywords: coaching, cost of non-quality, defect detection, efficiency, feature development, global inspection, teamwork, validation

20 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on**

Publisher: IBM Press

Full text available:



pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [inc](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on programs help the user to gain a better understanding of the execution of the application. The visualization tool we use is Poet, developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with a clear overview. In our experience, such tools display repeated occurrences of non-trivial communication patterns ...

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